III

...AL AND REVENU...
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A ROUGH LIST OF INDIAN FODDER-YIELDING TREES, SHRUBS, AND HERBS.

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A rough list of Indian fodder-yielding trees, shrubs, and herbs.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Abelia triflora, *R. Br.*	.....	Shrub	N.-W. Himalaya	Goats	Leaves.
Abies Webbiana, *Lindl.*	Himalayan Silver Fir	Tree	Himalaya, extending to Afghanistan	...	Twigs and leaves.
Acacia arabica, *Willd.*	Babul, kikar	Do.	Sindh and N. Deccan (Brandis); cultivated elsewhere.	Cattle, goats, sheep, and camels.	Shoots, leaves, and green pods.
„ Farnesiana, *Willd.*	Vilayati kikar	Shrub	Extensively spread over India; introduced from America.	Camels	Branches.
„ Jacquemontii, *Benth.*	.....	Do.	N.-W. India	...	Leaves.
„ leucophlæa, *Willd.*	.....	Tree	N.-W. and S. India and Burma; also in Ceylon and Java.	Sheep, goats, and camels.	Foliage and pods.
„ modesta, *Wall.*	Phulái	Do.	N.-W. India to Afghanistan	Cattle	Leaves and blossoms.
Acer pictum, *Thunb.*	.....	Do.	From the Indus to Assam. Eastward to China and Japan, and westward to Persia and the Caucasus.	...	Foliage.
„ villosum, *Wall.*	.....	Do.	Himalaya, from Kashmir to Nepal	...	Do.
Ægiceras majus, *Gærtn.*	.....	Do.	Sea-coast of India, and on tropical sea-shores elsewhere.	Camels	Do.
Ægle Marmelos, *Correa*	Bael	Do.	Throughout India	Cattle	Twigs and leaves.
Ærua javanica, *Juss.*	.....	Perl. herb.	India and Burma; also in Ceylon, and westward to Arabia, tropical Africa, and Cape Verd Islands.	Goats and camels.	Whole plant.
Æsculus indica, *Colebr.*	Indian Horse-Chestnut	Tree	N.-W. Himalaya to Nepal. Westward to Afghanistan.	Cattle, horses, and goats.	Foliage, nuts (pounded).

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Albizzia Lebbek, *Benth.*	Siris	Tree	India and Burma, extending to Malaya, China, N. Australia, and tropical Africa.	Cattle and camels	Twigs and leaves.
„ odoratissima, *Benth.*	.....	Do.	India, extending to Ceylon and Malaya	Cattle	Do. do.
„ stipulata, *Boiv.*	.....	Do.	India, to Ceylon and Malaya	Do.	Branches.
Alhagi maurorum, *Desv.*	Camel-thorn, jawása	Shrub	N.-W. India and in Concan, extending through W. Asia to Egypt and Greece.	Camels	Leaves and flowers.
„ camelorum, *Fisch.*	.....	Do.	Baluchistan, Afghanistan, Persia	Do.	Foliage.
Allardia glabra, *Decne.*	.....	Perl. herb	Tibet and inner Himalayan ranges	Sheep and goats when pressed by hunger.	Whole plant.
Allium Cepa, *L.*	Onion, Piáz	Herb	.....	Cows and buffaloes	Bulbs, boiled.
Alnus nitida, *Endl.*	.....	Tree	Punjab Himalaya	Cattle	Foliage.
Alysicarpus rugosus, *DC.*	.....	Herb	India and Burma; also in Ceylon and in most tropical countries.	Cows	Do.
Amarantus gangeticus, *L.*	Lál ság	Annual	Throughout India and in most tropical countries.	.....	Plant.
„ paniculatus, *L.*	Mársa (N. W. Him.)	Do.	Cultivated in India and Ceylon, and up to 9,000 feet on Himalaya.	.....	Do.
„ polygamus, *L.*	Chaulai	Do.	Throughout India; also in Ceylon and in most tropical countries.	.....	Do.
„ tenuifolius, *Willd.*	.....	Do.	Northern India	.....	Do.
„ spinosus, *L.*	.....	Do.	Throughout India; also in Ceylon and in most tropical countries.	Cows	Do.

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Anthocephalus Cadamba, *Benth. & Hk. f.*	Kaddam	Tree	W. India and Assam (?); also in Ceylon, Sumatra, and Borneo. Cultivated in N. India.	Cattle	Foliage.
Arthrocnemum indicum, *Moq.*	.....	Shrub	Salt marshes in India; also in tropical Africa.	.....	Do.
Arachis hypogæa, *L.*	.....	Herb	.....	.....	Oil-cake.
Aralia cachemirica, *Decne.*	.....	Perl. herb.	Himalaya, from Kashmir to Sikkim	Goats	Foliage.
Artemisia parviflora, *Roxb.*	.....	Do.	Himalaya and hilly parts of India	Sheep and goats	Plant.
sacrorum, *Ledeb.*	.....	Do.	Tibet and inner ranges of Kumaun	Sheep and cattle	Do.
Artocarpus integrifolia, *L.*	Jack-tree	Tree	Wild in the Deccan. Cultivated in various parts of India; also in Ceylon and the Indian Archipelago.	Cattle and goats	Leaves.
Astragalus multiceps, *Wall.*	.....	Shrub	Western Himalaya	Cattle	Foliage.
Atriplex nummularia, *Lindl.*	Salt-bush	Do.	Introduced from Australia	Sheep and cattle	Do.
Stocksii, *Boiss*	.....	Do.	Salt-marshes in Sindh and Guzerat	Camels (?)	Do.
Avicennia officinalis, *L.*	White Mangrove	Large shrub or small tree.	Sea-coasts of India, and of other tropical countries.	Do.	Do.
Balanites Roxburghii, *Planch.*	Hingot	Tree	Hotter parts of India and in Burma	Cattle	Young twigs and leaves.

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Barringtonia acutangula, *Gærtn.*	.....	Tree	Throughout India in the plains; also in Malaya and in N. Australia.	Cattle	Bark mixed with chaff and pulse.
Bassia latifolia, *Roxb.*	Mahwa	Do.	Northern, Central, and Western India	Do.	Flowers.
Bauhina purpurea, *L.*	.....	Do.	From the base of the Himalaya throughout India, and in Burma; also in Ceylon, Penang, and China.	Do.	Leaves.
„ racemosa, *Lamk.*	.....	Do.	From the Himalaya throughout India, and in Burma; also in Ceylon. Extends to China and Malay Islands.	Camels and buffaloes.	Do.
„ variegata, *L.*	Kachnár	Do.	Throughout India from the Himalaya, and in Burma; also in China.	?	Do.
Berberis *spp.*	.....	Shrubs	S. Afghanistan	Camels	Do.
Betula utilis, *Don.*	Himalayan Birch, or Bhojpattra.	Tree	Himalaya; also in Afghanistan and Japan	Cattle	Foliage.
Bœhmeria ramiflora	.....	Shrub	.....	.....	Leaves.
Bœrhaavia repens, *L.*, var. diffusa	.....	Perl. herb.	Throughout India; also in Ceylon and in most hot countries of the world.	?	Foliage.
„ verticillata, *Poir.*	.....	Do.	W. C. and S. India; also in Afghanistan, Baluchistan, extending to Syria and tropical Africa.	?	Do.
Bombax malabaricum, *DC.*	Cotton tree, Simal	Tree	Throughout the hotter parts of India, and in Burma; also in Ceylon, Java, and Sumatra.	?	Leaves.
Boussingaultia basseloides, *H.f.B.*	.....	Herb	Introduced	Cattle and sheep	Tubers.
Brassica alba, *H. f. & T.*	White mustard	Annual	Cultivated in India	Sheep	Oil-cake.

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Brassica campestris, *L.*—					
var. glauca	Sarson	Annual	Cultivated in India	Sheep and goats; cattle.	Oil-cake, leaves.
„ Rapa	Turnip	Do.	Ditto	Cattle	Roots.
„ Toria	Toria	Do.	Ditto	Do.	Leaves.
„ chinensis, *L.*	Shantung Cabbage	Do.	Has been tried in India. Is a Native of China	.....	.....
„ juncea, *H. f. & T.*	Rai	Do.	Cultivated in India; also westward to Egypt, and eastward to China.	?	Leaves.
Briedelia montana, *Willd.*	.....	Tree	N. India from Punjab to Bhutan; also in Coromandel.	Cattle	Do.
„ retusa, *Spreng.*	.....	Do.	Hotter parts of India, and in Burma, Malacca, and Travancore; also in Ceylon.	Do.	Do.
Broussonetia papyrifera, *Vent.*	Paper mulberry	Small tree	Cultivated in India; indigenous in China, Japan, Polynesia, Siam.	?	Do.
Buchanania latifolia, *Roxb.*	.....	Do.	Hot and dry parts of India and in Burma	.....	Do.
Butea frondosa, *Roxb.*	Dhák	Tree	Throughout India and Burma; also in Ceylon	Bullocks, buffaloes, camels, elephants.	Do.
Buxus sempervirens, *L.*	Box	Bush or tree	Himalaya 5,000 to 9,000 feet; also on the Salt Range. Extends westward to N. Africa and Britain, and northward to Siberia, China, and Japan.	Goats; but poisonous to all other animals.	Do.

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Cajanus indicus, *Spreng.*	Pigeon pea, arhar, tur	Shrub .	Cultivated all over India and in most other hot countries.	Cattle . .	Leaves, tender shoots, and pod shells.
Calendula officinalis, *L.*	.....	Perl. herb .	Punjab and Sindh (in cultivated fields). Extends westward through Afghanistan to S. Europe.	Cows . .	Plant.
Calligonum polygonoides, *L.* . . .	Phog . . .	Shrub .	Punjab and Sindh, extending westward to Persia, America, and Syria.	Goats and camels	Young branches.
Calotropis procera, *R Br.* . . .	Ák . . .	Do. .	N. and Central India; also at Ava, and in Persia and Tropical Africa.	Goats and sheep .	Leaves.
Cannabis sativa, *L.*	Hemp . . .	Do. .	Wild in the N. W. Himalaya; cultivated elsewhere.	.....	Oil-cake.
Capparis aphylla, *Roth.*	Karil . . .	Do. .	Drier parts of N. and Central India. Extends to Arabia, Egypt, and N. tropical Africa.	Sheep and goats .	Young shoots.
„ horrida, *L.f.*	His . . .	Do. .	Hot parts of India; also in Java and the Philippines.	Goats and elephants.	Young shoots and leaves.
„ spinosa, *L.*	Caper . . .	Do. .	Usually in the hotter parts of India, but ascends to 13,000 feet in Tibet.	Goats and sheep .	Leaves, ripe fruit.
Caragana pygmæa, *DC.*	.....	Do. .	W. Himalaya; also in Afghanistan and from the Altai Mountains to Davuria.	Goats . .	Foliage.
Carduus nutans, *L.*	.....	Herb .	Himalaya. Extending westward to Europe and N. Africa.	Camels and cattle (in dry seasons).	Plant.
Careya arborea, *Roxb.*	Kumbi . . .	Tree .	Throughout the hotter parts of India . .	Cattle . .	Fruit.
Carissa diffusa, *Roxb.*	Karaunda . .	Shrub .	Drier parts of India and Burma; also in Ceylon.	Goats and sheep .	Leaves.

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Carthamus tinctorius, *L.*	Safflower	Herb	Cultivated in India	Camels	Straw.
Cassia Fistula, *L.*	Indian Laburnum, or Amaltás.	Tree	Throughout India. Also in Ceylon, Malay Islands, and China.	Cattle	Twigs and leaves.
Cedrela serrata, *Royle.*	.....	Do.	Himalaya, up to 8,000 ft.	Do.	Shoots and leaves and seeds.
„ Toona, *Roxb.*	Toon-tree or Indian Mahogany.	Do.	Hilly parts of India and in Burma. Extends to Java and Australia.	Do.	Young shoots and leaves and seeds.
Cedrus Libani, *Barrel.* *var.* Deodara.	Deodar or Himalayan Cedar.	Do.	N.-W. Himalaya. Extending to Afghanistan and Baluchistan.	Goats	Young shoots and plants.
Celastrus senegalensis, *Lamk.*	.....	Shrub	Drier parts of India. Extending to tropical Africa and S. Europe.	?	Leaves.
Celtis australis, *L.*	.. ...	Tree	Himalayas from Indus to Nepal, Suliman and Salt Ranges. Extending to Mediterranean region.	...	Do.
Ceratonia Siliqua, *L.*	Carob-tree	Do.	S. Europe, N. Africa and in Syria. Cultivated in India.	Horses and cattle	Pods.
Chenopodium album, *L.*	Bathua	Herb	.....	...	Plant.
Cicer arietinum, *L.*	Chick-pea gram, Bengal gram.	Do.	Cultivated in India. Probable origin W. Asia	Horses and cattle	Seeds and plant, fresh or dry.
„ soongaricum, *Steph.*	.....	Do.	W Himalaya. Through Afghanistan to W. Asia.	Cattle	Seeds and plant.
Cistanche tubulosa, *Wight.*	.....	Do.	Sindh, Punjab, and Rajputana. Extending through Central Asia to Arabia.	Cattle, goats, and camels.	Upper parts of stems.

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Citrullus Colocynthis, *Schrad.*	Colocynth	Herb	Wild and cultivated in India. Through W. Asia and Arabia to Africa and S. Europe.	Buffaloes, horses, and mules.	Fruit.
„ vulgaris, *Schrad.*	Water-melon, Turbuz	Do.	Cultivated in India and in most warm countries	Cattle	Seeds.
Cocos nucifera, *L.*	Cocoa-nut Palm	Tee	Cultivated in India and in most warm countries	Do.	Refuse of kernels.
Cocculus Leæba, *DC.*	.....	Shrub	Drier parts of India, Afghanistan, Arabia, Africa.	Goats	Young shoots and leaves.
„ villosus, *DC.*	.....		Hotter parts of India. Extends to Tropical Africa.	Cattle and goats	Young shoots and leaves.
Colebrookia oppositifolia, *Smith.*	.....	...	.....	.....	.....
Commelyna bengalensis, *L.*	.....	Herb	.....	Cattle, goats, and camels.	Plant.
Convolvulus pluricaulis, *Choisy.*	.....	Perl. herb	Hotter parts of India	Cattle	Do.
„ sp.	.....	Do.	.....	Do.	.....
Corchorus Antichorus, *Rœusch.*	.....	Do.	N. and Central India. Extending through Afghanistan to tropical Africa.	Camels	Plant.
„ olitorius, *L.*	.....	Annual	Hotter parts of India and in all tropical countries.	Cattle	Leaves.
Cordia latifolia, *Roxb.*	.....	Tree	Hotter parts of India. Extends to Ava and Malacca.	?	Do.
„ Myxa, *L.*	Lasora	Do.	Hotter parts of India. Also in Ceylon, tropical Australia, and extending westward to Egypt.	?	Do.

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Coriaria nepalensis, *Wall.*	....	Shrub	Himalaya to Bhutan and Sikkim	Sheep	Foliage.
Cornus macrophylla, *Wall.*	.....	Tree	Himalaya. Extending to China and Japan	Goats	Leaves.
Cressa cretica, *L.*	.....	Shrub	Throughout India. Also in Ceylon and in most hot countries.	Camels	Plant.
Crotalaria Burhia, *Ham.*	.....	Do.	Sandy parts of N and W. India. Extends to Afghanistan and Baluchistan.	Cattle and camels	Foliage.
„ juncea, *L.*	Indian hemp or Sanni	Do.	Throughout India	Cattle	Leaves and tops, seeds.
„ medicaginea, *Lamk.*	.....	Perl herb	Throughout India and Burma. Also in Ceylon, Afghanistan, China, and Australia.	Cattle, goats, and camels.	Foliage.
Cyamopsis psoralioides, *DC.*	Guár	Annual	Mostly cultivated in India. Extends to Afghanistan.	Cattle	Seeds and foliage.
Cyperus rotundus, *L.*	.....	Herb	.....	Do.	Plant.
Cocos nucifera, *L.*	Cocoa-nut palm	Tree	Cultivated throughout the tropics	Do.	Refuse of kernel after expression of oil.
Dæmia extensa, *R.Br.*	.....	Climbing shrub.	Throughout India; extending into Afghanistan	Goats	Foliage.
Dalbergia latifolia, *Roxb.*	Blackwood or Rosewood tree (of S. India).	Tree	Central and S. India, and Sub-Himalayan tracts of Oudh and Sikkim.	Cattle	Do.
„ Sissoo, *Roxb.*	Sissoo tree or Shisham	Do.	Sub-Himalayan tracts from Indus to Assam. Extensively cultivated.	Cattle, goats, and camels.	Leaves and young shoots.
Daucus Carota, *L.*	Carrot	Herb	Cultivated in many parts of India.	Cattle and horses	Leaves and roots.

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Debregeasia hypoleuca, *Wedd.*	.....	Shrub	N.-W. Himalaya and Salt Range Extending to Afghanistan.	Sheep	Foliage.
Desmodium diffusum, *DC.*	.....	Herb	Plains of India and in Burma	Cattle	Do.
„ parvifolium, *DC.*	.....	Do.	Outer Himalaya and plains of India. Extends to China and Japan.	Cattle, camels and goats.	Plant.
„ tiliæfolium, *G.Don.*	.....	Shrub	N.-W. Himalaya	Cattle	Foliage.
„ triflorum, *DC.*	.....	Herb	Throughout India	.....	.....
Dillenia pentagyna, *Roxb.*	.....	Tree	Hotter parts of India	.....	Fruit.
Diospyros montana, *Roxb.*	.....	Tree	Tropical India and Burma; extending through Ceylon to Australia.	...	Twigs and leaves.
Dolichos biflorus, *L.*	Horse-gram of Madras, Kulthi or Kulat.	Herb.	Cultivated on Himalaya and in most parts of India.	Horses and cattle	Grain and straw; also the fresh plant.
„ Lablab, *L.*	.....	Do.	Cultivated on Himalaya and throughout India.	Cattle	Grain and straw.
Dracocephalum heterophyllum, *Benth.*	.....	Do.	W. Tibet and in Turkistan	Sheep and goats	Plant.
Eclipta alba, *Hassk.*	.....	Do.	A common weed throughout India	Camels	Do.
Ehretia lævis, *Roxb.*	Chamror (N. India)	Tree	Tropical and sub-tropical India	Cattle	Leaves.
Ephedra vulgaris, *Rich*	.....	Shrub	Himalaya and W. Tibet; extending to Europe	Goats	Branches.
Equisetum debile, *Roxb.*	.....	Herb	.....	Cattle?	Plant.

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Eruca sativa, *Lam.*	Tara-mira (N. India)	Herb	Cultivated in most parts of India	Cattle, camels, sheep and goats.	Fresh plant.
Ervum Lens, *L.*	Lentil, masur (N. India).	Do.	Cultivated in N. India	Cattle	Dry stalks and leaves.
Euonymus Hamiltonianus, *Wall.*	.....	Shrub or small tree.	Himalaya and Khasia Mountains	Do.	Young shoots and leaves.
„ fimbriatus, *Wall.*	.....	Small tree	Himalaya to Sikkim	Goats	Do. do.
Euphorbia pilulifera, *L.*	.....	Herb	Throughout tropical India	Do.	Plant.
Fagonia arabica, *L.*	.....	Small shrub.	Hotter parts of India. Westward to Egypt	Camels	Branches.
Ficus bengalensis, *L.*	Banyan, Bor or Bargat	Tree	N. and Central India; often planted	Cattle, elephants.	Do.
„ foveolata, *Wall.*	.....	Scandent shrub.	Himalaya and Khasia Hills; extending to China.	Goats	Leaves.
„ glomerata, *Roxb.*	Gular (N.-W. P.)	Tree	Tropical India extending to Australia	Cattle and elephants.	Leaves and Fruit.
„ hispida, *L.*	.....	Do.	Outer Himalaya and Tropical India and Burma; extending from Ceylon to Australia.	Cattle	Leaves.
„ infectoria, *Roxb.*	Pilkhan (N. India)	Do.	Hilly parts of Northern and Central India; often planted.	Cattle, elephants.	Branches.
„ nemoralis, *Wall.*	.....	Do.	Outer Himalaya to Sikkim	Cattle	Do.

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Ficus palmata, *Forsk.*	.....	Tree	Hilly parts of N. India; often planted	Cattle	Leaves.
„ religiosa, *L.*	Pipal	Do.	Throughout India and Burma; much planted. Also in Ceylon.	Cattle, elephants	Do.
„ Roxburghii, *Wall.*	.....	Do.	Northern India and Burma; often planted	Do.	Do.
„ Rumphii, *Blume*	.....	Do.	Northern and Central India, and Burma	Cattle	Do.
„ sœmocarpa	.....	Shrub	Rocky streams in N. India, and in Burma	Do.	Do.
Flacourtia Ramontchi, *L'Herit.*	.....	Shrub or small tree.	Warm hilly parts of India; often planted. Extends to Madagascar and Eastern Achipelago.	Do.	Twigs and leaves.
„ sepiaria, *Roxb.*	.....	Shrub	Hotter parts of India; also in Ceylon and Java.	Do.	Leaves.
Fraxinus Moorcroftiana, *Wall.*	.....	Shrub or small tree.	N.-W. Himalaya up to 9,000 feet. Also in Afghanistan and Baluchistan.	Sheep and goats	Do.
Garuga pinnata, *Roxb.*	Kharpat (N. India)	Tree	Throughout India from the Himalaya. Extends to Malay Archipelago and Philippines.	Elephants	Do.
Glycine Soja, *Sieb & Zucc.*	Japan Pea or Soy Bean; Bhat (N.-W. Himalaya).	Herb	Cultivated in warm valleys of Himalaya and Khasia mountains.	Cattle	Oil-cake.
Gmelina arborea, *Roxb.*	.....	Tree	India and Burma. Extends to Malayan and Philippine Islands.	Do.	Leaves, fruit.
Gossypium herbaceum, *L.*	Cotton Plant	Shrub	Extensively cultivated in India	Do.	Seed, oil-cake.
Grewia asiatica, *L.*	Phalsa	Tree	N. and Central India often planted for its fruit.		

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Grewia lævigata, *Vahl.* . . .	... ..	Tree .	Outer Himalaya and throughout India, and in Burma. Extends to Malay Islands and Australia.	Cattle . .	Twigs and leaves.
„ oppositifolia, *Roxb.* . . .	.....	Do. .	N.-W. Himalaya to Nepal, Salt and Suliman Ranges; often planted.	Goats and sheep .	Dried leaves.
„ tiliæfolia, *Vahl.*	.. ...	Do. .	From the Himalaya in hot dry forests throughout India.	.....	Twigs and leaves.
„ vestita, *Wall.*	.....	Do. .	From the Himalaya through N. and Central India.	.....	Branches.
Guazuma tomentosa, *Kunth* . . .	Bastard Cedar . .	.....	Cultivated in warmer parts of India, and in Ceylon.	Cattle . .	Leaves.
Guizotia abyssinica, *Cass.* . . .	Foolish—oil Plant .	Herb. .	Cultivated in certain parts of India. A native of Europe and Africa.	Camels, milch cattle.	Stems, oil-cake.
Haloxylon multiflorum, *Bunge.* . . .	Gora lána . .	Shrub .	N.-W. Punjab; extending to Afghanistan .	Camels . .	Branches.
„ recurvum, *Bunge.* . . .	Khangan lána . .	Do. .	W. Punjab and Sindh, Deccan, Burma; extending to Afghanistan and Yunan.	Do. . .	Do.
Hardwickia binata, *Roxb.* . . .	Anjan (C. Provinces) .	Tree .	.....	Cattle . .	Leaves.
Hedera Helix, *L.*	Ivy . . .	Woody climber.	Himalaya; temperate parts of Old World .	Goats . .	Do.
Heracleum, *sp.*	.....	Herb .	.....	Do. . .	Plant.
Heterophragma Roxburghii, *DC.* . .	.....	Tree .	Central India and W. Deccan . . .	Cattle . .	Leaves.
Hibiscus cannabinus, *L.*	Patsan (N. India) .	Herb .	Cultivated in India, and in most tropical countries	Do. . .	Seed.
Hiptage Madablota, *Gærtn.* . . .	.....	Woody climber.	Hotter parts of India from Sub-Himalayan tract, and in Ceylon. Extends to Java and China.	.....	.....

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Holarrhena antidysenterica, *Wall.* . .	.....	Tree .	From the Himalaya through the hotter parts of India. Extends to Malacca.	.....	Leaves.
Hymenodictyon excelsum, *Wall.* . .	.....	Do. .	Sub-Himalayan tract, Deccan, and Central India; extending to Java.	Cattle . .	Foliage.
Hyosciamus niger, *L.*	Henbane . . .	Herb.	Temperate W. Himalaya, Europe, N. and W. Asia.	Do. . .	Plant.
Ilex dipyrena, *Wall.*	Himalayan Holly .	Tree .	Temperate Himalaya	Sheep . .	Leayes.
Indigofera cordifolia, *Heyne* . . .	.....	Herb .	Plains of India: extending to Afghanistan and Australia.	Buffaloes . .	Plant.
„ enneaphylla, *L.* . . .	.....	Do. .	Plains of India, also in Burma and Ceylon; extending to Australia.	Cattle . .	Do.
„ glandulosa, *Willd.* . . .	.....	Do. .	Plains of India	Do. . .	Do.
„ linifolia, *Retz.* . . .	.....	Do. .	Plains of India; extending to Australia and Abyssinia.	Do. . .	Do.
„ paucifolia, *Del.* . . .	.....	Shrub .	Plains of India; extending to Baluchistan and Africa and to Java.	Sheep . .	Foliage.
Ipomæa Batatas, *Lamk.*	Sweet potato . .	Herb .	Cultivated in India; Native of America .	Cattle . .	Stems.
Iris kumaonensis, *Wall.*	.....	Do. .	Himalaya	.....	Leaves.
Juglans regia, *L.*	Walnut, Akhrot .	Tree .	N.-W. Himalaya, Sikkim, Ava hills; extends westward to Persia.	.....	Twigs and leaves.
Lagenaria vulgaris, *Seringe* . . .	Bottle gourd .	Herb	Cultivated in India and in tropics generally .	Cows and buffaloes.	Fruit.

Botanical Name.	English or Vernaculora Name (in general use.)	Tree, shrub or herb.	Georagphical Distribution.	Eaten by	Part used.
Lathyrus Aphaca, *L.*	.....	Herb.	Temperate Himalaya and plains of Northern India, extending to Europe.	Cattle	Plant.
„ imphalensis, *Watt Ms.*	.....	Do.	Manipur	.....	Do.
„ sativus, *L.*	Kesari (N. India)	Do.	Wild and cultivated in N. India	Cattle	Do.
Launæa *sp.*	.....	Do.	.....	Sheep and goats	Do.
Lespedeza stricta, *Hook and Arn.*	Japan clover	.....	.....	.....	.....
Leptadenia Spartium, *Wight*	.....	Shrub	Punjab and Sindh; extending to Arabia and Egypt.	Cattle and camels	.....
Lippia nodiflora, *Rich.*	.....	Herb	India and Ceylon, generally throughout the tropics.	Camels	Plant.
Lonicera hypoleuca, *Dene.*	.....	Shrub	N.-W. Himalaya	Goats	Leaves.
„ quinquelocularis, *Hardw.*	.....	Do.	Temperate Himalaya	Cattle	Do.
Lycium europæum, *L.*	.....	Do.	Western India; extending to Europe	Camels and goats	Foliage.
Manihot utilissima, *Pohl.*	.....	Do.	Cultivated in tropical countries. Introduced originally from America.	Cattle	Do.
Marlea begoniæfolia, *Roxb.*	.....	Tree	N. India from Himalayas to Burma; extending to China and Japan.	Sheep	Leaves.
Medicago denticulata, *Willd.*	.....	Herb	N. India. Extending to Europe, China, and Siberia.	Cattle	Plant.
„ falcata, *L.*	.....	Do.	N. W. India, Kashmir. Extending to Europe.	Do.	Do.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Medicago lupulina, *L.*	Hop, or Black Medick	Herb	N.-W. India. Extending to Europe and Siberia.	Cattle	Plant.
„ sativa, *L.*	Lucerne	Do.	Extensively cultivated in India. Wild in Europe and N. Africa.	Horses	Do.
Melia Azadirachta, *L.*	Neem or nim	Tree	Throughout India; cultivated or self-sown	Cattle, sheep goats, and camels.	Leaves.
„ Azedarach, *L.*	Persian Lilac, Bakain	Do.	Cultivated throughout India, and in most tropical countries. Wild in N. India.	Cattle, sheep, and goats.	Leaves and fruit.
Melilotus parviflora, *Desf.*	Sinji (Punjab)	Herb	A common weed in cultivated ground; also cultivated as a crop; extends to Europe.	Cattle	Plant.
Mimosa rubicaulis, *Lamk.*	.....	Shrub	Himalaya and throughout India. Extends to Afghanistan.	Camels	Foliage.
Mollugo hirta, *Thunb.*	.....	Herb	Throughout India	Do.	Plant.
Morinda tinctoria, *Roxb.*	Al	Tree	Throughout India. Extending to Ceylon and Malacca.	Cattle	Leaves.
Moringa pterygosperma, *Gærtn.*	Horse-radish tree	Do.	Wild in N. India; cultivated elsewhere, and in most tropical countries.	Do.	Twigs and leaves.
Morus alba, *L.*	Mulberry	Do.	Cultivated in N. India. Extends to Afghanistan and W. Asia.	Sheep and goats	Leaves.
„ indica, *L.*	Tút (Bengal)	Do.	Wild and cultivated in N. India. Extends to China and Japan.	Cattle	Do.
„ serrata, *Roxb.*	.....	Do.	N.-W. Himalaya; wild and cultivated	Do.	Twigs and leaves.
Musa paradisiaca, *L.*	Plantain	Perl. herb	Cultivated largely in India and other warm countries.	...	The stems and leaves chopped up.

Botanical Name.	English or Vernacular Name (in general use.)	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Myricaria elegans, *Royle*	.....	Shrub	W. Himalaya	Sheep and goats	Twigs.
„ germanica, *Desv.*	.....	Do.	Himalaya. Extending westward to Europe	Do. do.	Do.
Odina Wodier, *Roxb.*	.....	Tree	Hotter parts of India	Cattle, elephants	Branches.
Olea cuspidata, *Wall.*	Kau (N.-W. Prov.)	Do.	W. Himalaya. Extending to Baluchistan and Afghanistan.	Cattle, sheep and goats.	Leaves.
„ glandulifera, *Wall.*	.....	Do.	W. Himalaya, and hills of S. India	...	Do.
Opuntia Dillenii, *Haworth*	Prickly pear, or nág-phona.	Shrub	Naturalized in India. A native of America	...	...
Otostegia limbata, *Benth.*	.....	Do.	Punjab	Goats	Branches.
Ougeinia dalbergioides, *Benth.*	Sándan (N. India)	Tree	N. and Central India	Cattle	Do.
Oxybaphus himalaicus, *Edgew.*	... .	Perl. herb	W. Himalaya	...	...
Oxytropis microphylla, *DC.*	.....	Shrub	Himalaya	Sheep and yaks	Foliage.
Oxystelma esculentum, *R. Br.*	.....	Perl. herb	Plains of India; also in Ceylon	...	...
Parkinsonia aculeata, *L.*	Vileyati kikar	Small tree	Universally cultivated in India. A native of Trop. America.	Goats	Branches.
Pentzia virgata	Sheep bush	Shrub	South Africa	Sheep	Foliage.
Periploca aphylla, *Dcne.*	.....	Do.	W. Punjab, and Sind; extending to Afghanistan and Arabia.	Goats	Branches.
Phaseolus aconitifolius, *Jacq.*	Moth, math	Herb	Largely cultivated in India	Cattle, horses	Stalks bhusa, and grain.
„ calcaratus, *Roxb.*	.....	Do.	India; extending to Malaya	Cattle	...

Botanical Name.	English or Vernacular Name (in general use.)	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Phaseolus Mungo, *L.*	Mung, mug or green gram.	Herb .	Extensively cultivated in India and in most warm countries.	Cattle . .	Bhusa and grain.
„ *var.* radiatus . . .	Urd, másh, or black gram.	Do. .	Ditto ditto . . .	Cattle and camels	Grain and bhusa.
„ trilobus, *Ait.*	Red gram (Coimbatore)	Do. .	Wild and cultivated in India; extends to Abyssinia.	Cattle . .	Leaves, stalks, and grain.
Phœnix sylvestris, *Roxb.*	Wild date . .	Tree .	Plains and lower hills of India . . .	Cattle, horses and mules, goats and sheep.	Rounded seeds, leaves, and refuse of distillery.
Phyllanthus urinaria, *L.*	.....	Herb .	Throughout India and in tropics generally .	Cattle . .	Plant.
Physochlaina prealta, *Hook. f* . . .	.....	Do. .	N. Kashmir and W. Tibet; extending to Yarkand.	Sheep and goats .	Do.
Picrasma quassioides, *Benn.* . . .	.....	Tree .	Sub-tropical Himalaya; extending to S. China	Do. do. .	Foliage.
Piptadenia oudhensis, *Brandis* . . .	.....	Do. .	Oudh	Cattle . .	Leaves.
Pistacia integerrima, *J. L Stewart* . .	.....	Do. .	N. W. Frontier, and W. Himalaya . .	Buffaloes and camels.	Twigs and leaves.
„ mutica, *Fisch. and Mey.* . .	Kinjak (Persian) .	Do. .	Afghanistán and Beluchistán . . .	Camels and goats	Foliage.
Pisum arvense, *L.*, ...	.....	Herb .	Cultivated	.....	Do.
„ sativum, *L.*	Mattar . . .	o. .	Do.	Cattle . .	Plant (fresh), and straw.
Pithecolobuim dulce, *Benth.* . . .	.....	Tree .	Cultivated in India. Introduced from Trop. America.	Do. . .	Pods.
„ Saman, *Benth.* . .	Rain-tree, guango (Jamaica).	Do. .	Cultivated in India. Introduced from W. Indies	Do. . .	Do.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Poinciana elata, *L.*	.....	Tree	W. and E. coasts of S. India; extending to Arabia and Trop. Africa.	Cattle	Foliage.
Polygonum barbatum, *L.*	.....	Herb	Hotter parts of India; also in Ceylon	Do.	Plant.
„ chinense, *L.*	.....	Do.	Lower hills of India; also in Ceylon	Do.	Do.
„ tomentosum, *Willd.*	.....	Do.	Plains of India; also in Ceylon	Do.	Do.
Pongamia glabra, *Vent.*	Indian Beech	Tree	Wild and planted in India; extends to N. Australia.	Do.	Leaves.
Populus balsamifera, *L.*	.....	Do.	Dry inner ranges of N. W. Himalaya; extends to N. America.	Do.	Branches.
„ ciliata, *Wall.*	.....	Do.	Himalaya, up to 10,000 ft.	Goats	Leaves.
„ euphratica, *Oliv.*	Bâhan (Punjab)	Do.	Sindh and W. Punjab; extending to Palestine and Algeria; to Syria and Egypt.	Cattle, goats and camels.	Branches.
„ nigra, *L.* *var. pyramidalis.*	Lombardy Poplar	Do.	Cultivated in Punjab plains and N. W. Himalaya.	Cattle	Do.
Potamogeton crispus, *Linn.*	.....	Herb	Rivers and lakes in India; extending to Europe	.....	.....
Potentilla fruticosa, *L.*	.....	Shrub	Himalaya; extending to Europe	Sheep	Branches.
„ Salessovii, *Steph.*	.....	Do.	Himalaya, extending to China	Do.	Plant.
Premna integrifolia, *L.*	.....	Tree	Bengal, S. India; extending to Ceylon and N. Australia.	Cattle	Leaves.
Prosopis juliflora	Mezquit bean	Shrub	Introduced from Mexico	.....	Pods.
„ pubescens	Screw mezquit	Do.		.....	Do.
„ spicigera, *L.*	Jhand (Punjab)	Tree	N. W. India; extending to Persia	Cattle, goats and camels..	Leaves and pods.

Botanical Name.	English or Vernacular Name (in general use).	Trees, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Prunus Padus, *L.*	.....	Tree	Temp. Himalaya ; extending to Great Britain and Siberia.	Cattle	Leaves.
Psoralea corylifolia, *L.*	.....	Herb	Throughout the plains of India ; also in Ceylon	Do.	Plant.
„ plicata, *Del.*	.....	Do.	Punjab ; extending to Egypt and Trop. Africa	Camels	Do.
Pterocarpus Marsupium, *Roxb.*	Bastard Teak	Tree	Central and S. India ; also in Ceylon	Cattle and goats.	Leaves.
Pueraria tuberosa, *DC.*	Síali (Punjab)	Climbing shrub.	Hilly parts of India at low elevations	Cattle and horses	Leaves and tubers.
Putranjiva Roxburghii, *Wall.*	Jia puta (N. India)	Tree	Sub-Himalayan tract to S. India ; also in Ceylon	Cattle	Leaves.
Quercus dilatata, *Lindl.*	Moru	Do.	N. W. Himalaya ; extending to Afghanistan	Sheep and goats.	Do.
„ Ilex, *L.*	Holm Oak	Do.	Drier parts of N. W. Himalaya ; extending to Europe.	Camels	Do.
„ incana, *Roxb.*	Bán	Do.	Outer Himalaya, from the Indus to Nepal ; also in Upper Burma.	Cattle	Do.
„ lanuginosa, *Don.*	Rianj	Do.	Central and E. Himalaya	.....	Do.
„ semicarpifolia, *Sm.*	Karshu	Do.	Along the Himalaya ; extending to Afghanistan	Cattle	Do.
Randia dumetorum, *Lamk.*	.....	Do.	From Sub-tropical Himalaya to S. India	Do.	Do.
„ uliginosa, *DC.*	.....	Do.	East, Central, and South India	Do.	Do.
Rhazya stricta, *Dene.*	.....	Shrub	Salt Range ; extending to Arabia	Goats	Leaves (after steeping).
Rhizophora mucronata, *Lamk.*	.....	Tree	Sea shores of India, and other hot countries	Cattle and camels	Leaves and berries.
Ricinus communis, *L.*	Castor	Herb	Cultivated throughout India and in the tropics generally.	Cattle	Oil-cake.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Rubia tinctorum, *L.*	Manjit (N. India)	Scandent herb	.....	Camels	Plant.
Saccopetalum tomentosum, *Hk. f. & T.*	.....	Tree	Oudh Terai, Behar, Orissa, and southwards to Travancore.	.....	Leaves.
Salix acmophylla, *Boiss.*	.....	Do.	N. W. India; extending to Persia	Cattle	Do.
„ daphnoides, *Vill.*	.....	Shrub	N. W. Himalaya; extending to Europe	Do.	Do.
„ elegans, *Wall.*	.....	Do.	N. W. Himalaya	Do.	Do.
„ tetrasperma, *Roxb.*	.....	Tree	River-banks in India	Do.	Do.
Salsola fœtida, *Del.*	.....	Shrub	Plains of N. W. India; extending to North Africa.	Camels	Branches.
Salvadora oleoides, *Dcne.*	Jál	Tree	Plains of Punjab and Sindh; extending to Aden.	Goats and camels Cattle	Leaves. Berries.
„ persica, *L.*	.....	Tree	Drier parts of Sindh and Punjab; often planted.	Camels	Young shoots and leaves.
Salvia ægyptiaca, *L.*	.....	Herb	Plains of Punjab; extending to Cape Verde Islands.	Sheep and goats	Plant.
„ „ *var.* pumila	.....	Herb	Plains of Punjab; extending to Cape Verde Islands.	Sheep and goats	Plant.
Sapindus Mukorossi, *Gaertn.*	Ritha (N. India)	Tree	N. W. India and Bengal (cultivated); extending to Assam, China and Japan.	Cattle	Leaves.
Saurauja nepalensis, *DC.*	.....	Do.	Temperate Himalaya.	Do.	„
Schleichera trijuga, *Willd.*	Kosum (N. India)	Do.	Dry forests of India; extending to Java	Do.	Twigs and leaves.
Scirpus barbatus, *Roxb.*	.....	Herb	Common on wet ground	Do.	Plant.
„ maritimus, *L.*	.....	Do.	Ditto	Do.	Do.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Sesamum indicum, *DC.*	Gingelly, or til	Herb	Cultivated in India and inmost warm countries	Cattle	Oil-cake.
Sesbania ægyptiaca, *Pers.*	Jait (Punjab)	Tree	Plains of India, and in other hot countries	Do.	Leaves.
„ grandiflora, *Pers.*	.....	Do.	Cultivated in India; extends to Australia	Do.	Young shoots and leaves.
Smithia sensitiva, *Ait.*	.....	Herb	Common in India; extending to China and Madagascar.	?	Plant (fresh and dried).
Sonchus olera ceus, *L.*	Sow-thist	Do.	.....	Cattle	Plant.
Sophora mollis, *Grah.*	.. ...	Shrub	Plains and low hills of N. W. India	Goats	Branches.
Spondias mangifera, *Pers.*	Hog-plum	Tree	Throughout India; wild and cultivated	Deer	Fruit.
Stephegyne parviflora, *Korth.*	Kaddam	Do.	Drier parts of India and in Burma; also in Ceylon.	?	Leaves.
Sterculia colorata, *Roxb.*	.....	Do.	Subtropical Himalaya, and Central Provinces, Burma.	Cattle	Twigs and leaves.
„ villosa, *Roxb.*	.....	Do.	Subtropical Himalaya, Salt Range, and from Guzerat to S. India.	Do.	Leaves.
Streblus asper, *Lour.*	.....	Do.	Plains and lower hills of India; also in Ceylon; extends to China.	?	Do.
Strobilanthes callosus, *Nees.*	.....	Shrub	Central India	Cattle	Flowers.
Suœda fruticosa, *Forsk.*	.....	...	Plains of N. W. India; extending to Africa and America.	Camels	Branches.
„ maritima, *Dumort.*	.....	..	Plains of India; extending to Europe and N. America.	Do.	Do.
„ nudiflora, *Moq.*	.....	...	Sea coasts of India, and in Ceylon	Do.	Do.
Symphytum asperrimum, *Sims.*	Prickly comfrey	Herb	Europe	Cattle, sheep, goats and horses	Foliage.
Syringa Emodi, *Wall.*	.....	Tree	N. W. Himalayas; extending to Afghanistan	Goats	Leaves.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Tamarindus indica, *L.*	Tamarind	Tree	Planted in India and in most tropical countries	Elephants	Leaves.
Tanacetum senecionis, *Gay.*	Amli or imli	Herb	W. Himalaya	Goats	Plant.
Taraxacum officinale, *Wigg.*	Dandelion	Do.	Himalaya and W. Tibet; extending to Europe	.. ..	Do.
Taxus baccata, *L.*	Yew	Tree	Along the Himalaya, and in Burma; extending to Europe and N. Africa.	Goats and sheep	Leaves.
Tecoma undulata, *G. Don.*	.....	Do.	Plains of N and W. India; extending to Arabia	Cattle	Do.
Tectona grandis, *Linn. f*	Teak, Ságun	Do.	Central India and Burma; extending to Sumatra and Java.	Do.	Twigs and leaves.
Tephrosia purpurea, *Pers.*	.....	Shrub	Common in India, and in other hot countries	.....	Branches.
Terminalia belerica, *Roxb.*	Bakera	Tree	Plains and lower hills of India; also in Ceylon; extending to Malaya.	Cattle	Leaves.
„ Chebula, *Retz.*	Harar (Punjab)	Do.	N. and C. India; also in Ceylon; extending to Malaya.	Do.	Do.
„ tomentosa, *W. & A.*	Sain (N. W. India)	Do.	N. and Central India, and Burma; also in Ceylon	Do.	Do.
Trianthema crystallina, *Vahl.*	.....	Herb	Punjab to Ceylon; extending to Africa	Camels	Plant.
„ monogyna, *L.*	... ..	Do.	Common throughout India and in Ceylon	Do.	Do.
„ pentandra, *L.*	.....	Do.	Plains of N.-W. India; extending to Trop. Africa.	Cattle, sheep, goats and camels.	Do.
Trifolium fragiferum, *L.*	.....	Do.	Kashmir, extending to Europe	Cattle	Do.
„ pratense, *L.*	Common Clover	Do.	Kashmir and W. Himalaya; extending to Europe.	Do.	Do.
„ repens, *L.*	Dutch Clover	Do.	Himalaya; extending to Europe and N. America	Do.	Do.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used.
Trigonella Fœnum-grœcum, *L.*	Fenugreek or Methi	Herb	N. W. India; extending to Europe	Cattle	Green plant and grain.
Trophis americana, *L.*	.....	Tree	N. America	.....	.....
Tulipa stellata, *Hook.*	.....	Herb	N. W. India	Cattle	Plant.
Turpinia pomifera, *DC.*	.....	Tree	E. Subtropical Himalaya, S. India; also in Ceylon.	.....	Leaves.
Typha elephantina, *Roxb.*	Elephant Grass	Herb	Sides of streams and lakes	Elephants	Stems and leaves.
Ulmus integrifolia, *Roxb.*	Pápri (Punjab)	Tree	Lower hills of N. and C. India; also in Burma and Ceylon.	Cattle	Leaves.
„ Wallichiana, *Planch.*	.....	Do.	N. W. Himalaya	Do.	
Vanguieria spinosa, *Roxb.*	.....	Small tree	N. Bengal to Canara, Burma; extending to Java.	.....	Leaves.
Vicia Faba, *L.*	Bákla	Herb	Cultivated in India	Cattle	Seeds.
„ hirsuta, *Koch.*	.....	Do.	N. W. India and Nilghiris; extending to Europe.	Do.	Plant.
Vicoa auriculata, *Lass.*	.....	Do.	Drier parts of India and Burma; also in Ceylon	Buffaloes and goats	Do.
Vigna Catiang, *Endl.*	Lobiya	Do.	Cultivated in India, and in most tropical countries.	Cattle Horses	Leaves. Grain.
„ pilosa, *Baker*	.....	Do.	India, from E. Himalaya	Cattle	Straw.
Villarsia nymphæoides, *Vent.*	.....	Do.	W. Himalaya and Kashmir; extending to Europe and China.	Do.	Plant.
Vitis carnosa, *Wall.*	.....	Do.	Hotter parts of India; extending to Ceylon and Malacca.	Camels	Do.
Wendlandia exserta, *DC.*	.....	Tree	Dry forests of tropical Himalaya, Central India	..	Leaves.

Botanical Name.	English or Vernacular Name (in general use).	Tree, shrub or herb.	Geographical Distribution.	Eaten by	Part used
Withania somnifera, *Dun.* . . .	.....	Herb .	A frequent weed in India; extending to Canary Islands and Cape of Good Hope.	Goats . .	Plant.
Xanthium strumarium, *L.* . . .	... ..	Do. .	Hotter parts of India, and in Ceylon . .	Cattle (in U.S.A.)	Young parts.
Zizyphus Jujuba, *Lamb.*	Ber . . .	Tree .	Throughout India and in Ceylon; extending to China and Australia.	Cattle and camels	Leaves.
„ nummularia, *W. & A.* . .	Jharberi (N.-W India)	Shrub .	N. W. India, and drier parts of C. and S. India.	Cattle, sheep, goats and camels	Do.
„ xylopyria, *Willd.* . . .	Katber . . .	Do. .	Hotter parts of India, and in Ceylon . .	Cattle and goats .	Leaves and plant.
Zygophyllum simplex, *L.*	.....	Herb .	Sandy tracts of Sindh and Punjab; extending to Arabia and tropical Africa.	Camels . .	Foliage.

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